Series3800/S110R-1

POWERFUL SERVERS AT EXCEPTIONAL VALUE

Key Features

- Intel® Xeon® 3200 / 3000 Series, Core™ 2 Quad / Duo / Extreme Series, Pentium® D, Pentium Extreme Edition, Pentium 4 & Celeron D in LGA775 Package (FSB 1066/800/533)
- Intel 3010 (Mukilteo-2P) Chipset
- Up to 8GB Unbuffered ECC / Non-ECC DDR2 667/533 SDRAM
- Intel 82573V + Intel 82573L PCI-e Gigabit Controllers
- Built-in SATA Controller 4x SATA (3Gbps) Drive Support
- 1 Universal I/O (UIO) Slot 1 (x4) & 2 (x8) PCI-Express
- On board ATI ES1000 16MB Graphics
- IPMI 2.0 (Virtual Media Over LAN or Optional KVM Over LAN)

Processor / Cache

CPU	• Single Socket • Supports a Quad-Core Intel Xeon 3200 Series processor • Supports a Dual-Core Intel Xeon 3000 Series processor
System Bus	• 1066 / 800 / 533 MHz system bus

Operating System Software

Software	• Microsoft® Windows® XP Pro SP2 • Microsoft Windows Vista® Ultimate • Microsoft Windows Server® 2000/2003 32bit & 64bit • Red Hat® Linux® 4

System Memory

Memory Capacity	• Four 240-pin DIMM sockets • Supports up to 8 GB of memory (Single / Dual Channel)
Memory Type	• DDR2 667/533MHz unbuffered, ECC / non-ECC SDRAM, 240-pin gold-plated DIMMs
DIMM Sizes	• 256MB, 512MB, 1GB, 2GB
Memory Voltage	• 1.8V only

On-Board Devices

Serial ATA	• Intel ICH7R SATA2 (3Gbps) controller built-in • Intel: RAID 0, 1, 5, 10 support (Windows Only) • Adaptec: RAID 0 (Two, three, four drives only) RAID 1 (Two hard drives only)
IPMI	• Support for Intelligent Platform Management Interface v.2.0 • IPMI 2.0 with virtual media over LAN & optional KVM-over-LAN support • SIMSO Slot - Supermicro Intelligement Management • Optional: AOC-SIMSO+ • NOTE: Must use dedicated LAN for IPMI function
Network Controllers	• 2x Single-port Gigabit PCI-Express Ethernet Controllers • Intel 82573V + Intel 82573L • Supports 10BASE-T, 100BASE-T, 1000BASE-T, RJ45 output
VGA	• On-board ATI ES1000 (16MB) graphics
Super I/O	• Winbond 83627HG chip
Clock Generator	• Clock Generator

Input / Output

Serial ATA	• Four Serial ATA ports (3Gbps performance) • Four SATA hard drives supported
IDE	• One EIDE channel supports up to two UDMA IDE devices • Supports UDMA Mode 5, PIO Mode 4, and ATA/100
Floppy	• 1 Floppy controller; 1.44MB
LAN	• 2x RJ45 LAN ports
USB	• Up to 6x USB 2.0 / 1.1 compliant ports • 2 rear ports • 2 internal header for 4 USB 2.0/1.1 ports
VGA	• 1x VGA port

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Keyboard / Mouse	• PS/2 keyboard and mouse ports
Serial Ports	• 1x Fast UART 16550 serial port • 1x internal header

Chassis

Form Factor	• 1u Rackmount

Expansion Slots

Universal I/O	• 1 Universal (UIO) slot • Used in conjunction with Supermicro UIO Controller Card
PCI-Express	• 2 (x8) PCI-e slot • 1 (x4) PCI-e slot

System BIOS

BIOS Type	• 8MB Flash EEPROM with Phoenix BIOS®
BIOS Features	• Plug and Play (PnP) • DMI 2.3 support • PCI 2.2 • ACPI 1.0 • SMBIOS 2.3 • USB keyboard support

Management

Software	• Super Doctor III • Watch Dog • NMI • W83793G H/W Monitor
Power Configurations	• ACPI Power Management • Main Switch Override Mechanism • Wake-On-Ring (WOR) header • Wake-On-LAN (WOL) header • Power-on mode control for AC power loss recovery • Internal/External modem remote ring-on

PC Health Monitoring

CPU	• Monitors for CPU Cores (+1.5V, +1.8V, +3.3V, +5, ±12V, +5V Standby, VBAT) • CPU Core 4-Phase-switching voltage regulator with auto-sense from 0.3750V-1.6000V
FAN	• Total of six 4-pin fan headers • 6x fans with tachometer monitoring • Status monitor with firmware / software speed control • Status monitor for on/off control • Support 3-pin fans (with speed control) • Low noise fan speed control • Pulse Width Modulated (PWM) fan connector
Temperature	• Monitoring for CPU and chassis environment • CPU Thermal Trip support • Thermal Monitor (TM2) Support • PECI
LED	• CPU / System Overheat LED • Standby alert LED
Other Features	• Chassis intrusion detection • Chassis intrusion header

Dimensions

Height	• 1.7" (43mm)
Width	• 17.2" (437mm)
Depth	• 25.6" (650mm)
Gross Weight	• 42 lbs (19.1 kg)

Front Panel

Buttons	• Power On/Off button • System Reset button • UID button
LEDs	• Power LED • Hard drive activity LED • 2x Network activity LEDs • System Overheat LED • UID LED
Ports	• 2x USB & DB9 COM port tray • Optional - in place of floppy drive

Drive Bays

Hot-swap	• 4x 3.5" Hot-swap drive bays

System Cooling

Fans	• 4x Counter-rotating fans

Power Supply

AC Voltage	• 100 - 240V, 50 - 60Hz, 8.5 - 4 Amp
+5V	• 25 Amp
+5V standby	• 3 Amp
+12V	• 43.6 Amp
-12V	• 0.6 Amp
+3.3V	• 21 Amp

Operating Environment / Compliance

RoHS - RoHS Compliant 5/6, Server Exemption

Environmental Spec.
Operating Temperature: 10°to 35°C (50°to 95°F)
Non-operating Temperature: -40°to 70°C (-40°to 158°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5 to 95% (non-condensing)

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